

MONTHLY BULLETIN  
OF  
THE OBSERVATORY  
AMERICAN UNIVERSITY OF BEIRUT  
FORMERLY  
SYRIAN PROTESTANT COLLEGE  
BEIRUT, SYRIA

LAT.  $33^{\circ} 54' 22''$  N.  
LONG. E. FROM GREENWICH  $35^{\circ} 28' 10''$

SEPTEMBER 1921

J. A. BROWN, DIRECTOR

PRINTED AT THE UNIVERSITY PRESS

MOB.1/569  
A512 MO

SEPTEMBER 1921

# METEOROLOGICAL REGISTER

| Date | Barometer reduced to 0°C.<br>Sea level and<br>45° Latitude |       |       |       | Thermometer<br>Cent.<br>(Corrected) |      |                  | Bright<br>Sun<br>shine<br>hrs. | Rain<br>m.m. |
|------|------------------------------------------------------------|-------|-------|-------|-------------------------------------|------|------------------|--------------------------------|--------------|
|      | 8:30                                                       | 2:30  | 8:30  | mean  | Max.                                | Min. | Min. on<br>grass |                                |              |
| 1    | 755.4                                                      | 755.8 | 755.8 | 755.7 | 30.5                                | 23.4 |                  |                                |              |
| 2    | 6.2                                                        | 5.7   | 6.0   | 6.0   | 29.7                                | 23.9 |                  |                                |              |
| 3    | 6.3                                                        | 6.2   | 6.2   | 6.2   | 31.3                                | 23.7 |                  |                                |              |
| 4    | 6.2                                                        | 5.5   | 5.9   | 5.9   | 31.2                                | 24.9 |                  |                                |              |
| 5    | 5.3                                                        | 5.1   | 5.2   | 5.2   | 30.5                                | 24.4 |                  |                                |              |
| 6    | 5.3                                                        | 5.3   | 6.1   | 5.0   | 30.9                                | 24.0 |                  |                                |              |
| 7    | 6.8                                                        | 6.8   | 7.2   | 6.9   | 31.1                                | 23.4 |                  |                                |              |
| 8    | 7.4                                                        | 7.6   | 7.0   | 7.3   | 30.6                                | 23.3 |                  |                                |              |
| 9    | 6.5                                                        | 5.7   | 5.6   | 5.9   | 30.9                                | 23.4 |                  |                                |              |
| 10   | 5.5                                                        | 5.2   | 6.7   | 5.8   | 30.7                                | 24.4 |                  |                                |              |
| 11   | 7.6                                                        | 8.7   | 9.7   | 8.7   | 29.4                                | 22.8 |                  |                                | 0.76         |
| 12   | 60.1                                                       | 59.5  | 59.3  | 9.6   | 23.2                                | 23.8 |                  |                                |              |
| 13   | 59.4                                                       | 8.9   | 9.7   | 9.3   | 28.3                                | 22.4 |                  |                                |              |
| 14   | 9.5                                                        | 9.0   | 9.3   | 9.3   | 28.7                                | 21.5 |                  |                                |              |
| 15   | 9.7                                                        | 9.8   | 9.1   | 9.5   | 29.2                                | 22.2 |                  |                                |              |
| 16   | 9.7                                                        | 9.6   | 9.5   | 9.6   | 29.9                                | 23.3 |                  |                                |              |
| 17   | 9.6                                                        | 8.7   | 8.6   | 9.0   | 30.5                                | 24.1 |                  |                                |              |
| 18   | 9.7                                                        | 9.0   | 8.2   | 9.0   | 29.2                                | 22.1 |                  |                                |              |
| 19   | 7.3                                                        | 6.2   | 6.3   | 6.6   | 29.1                                | 22.2 |                  |                                |              |
| 20   | 6.5                                                        | 6.5   | 7.4   | 6.8   | 29.2                                | 21.6 |                  |                                |              |
| 21   | 7.8                                                        | 7.5   | 7.9   | 7.7   | 29.2                                | 22.3 |                  |                                |              |
| 22   | 7.9                                                        | 8.2   | 8.7   | 8.3   | 28.8                                | 22.7 |                  |                                |              |
| 23   | 9.5                                                        | 60.0  | 60.1  | 9.9   | 27.7                                | 20.5 |                  |                                | 3.30         |
| 24   | 62.3                                                       | 2.3   | 2.2   | 62.3  | 26.6                                | 21.5 |                  |                                |              |
| 25   | 2.4                                                        | 1.4   | 1.1   | 1.6   | 25.0                                | 19.8 |                  |                                |              |
| 26   | 0.8                                                        | 59.2  | 59.2  | 59.7  | 23.9                                | 20.6 |                  |                                |              |
| 27   | 59.3                                                       | 9.2   | 9.2   | 9.2   | 28.0                                | 21.8 |                  |                                |              |
| 28   | 60.1                                                       | 59.1  | 59.8  | 9.7   | 27.6                                | 20.2 |                  |                                |              |
| 29   | 61.0                                                       | 60.4  | 60.7  | 60.7  | 27.7                                | 21.2 |                  |                                |              |
| 30   | 0.2                                                        | 59.5  | 59.2  | 59.6  | 23.3                                | 23.2 |                  |                                |              |
| 31   |                                                            |       |       |       |                                     |      |                  |                                |              |
|      | 758.4                                                      | 758.6 | 758.2 | 758.4 | 29.2                                | 22.7 |                  |                                | 4.06         |

## BAROMETER

Maximum 762.4 on 25th  
Minimum 755.1 on 5th

## THERMOMETER

Maximum 31.3 on 3rd  
Minimum 19.8 on 25th  
Minimum on grass on

## RAINFALL

Maximum 3.30 mm. on 23rd

Number of days with rain 2 thunderstorms 0 fog 0 gale 0

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## METEOROLOGICAL REGISTER

| Date | Dry Bulb Cent.<br>(Corrected) |      |      |      | Wet Bulb Cent.<br>(Corrected) |      |      | Elasticity of Vapour<br>mm. |      |      |      | Relative Moisture<br>per cent. |      |      |      |
|------|-------------------------------|------|------|------|-------------------------------|------|------|-----------------------------|------|------|------|--------------------------------|------|------|------|
|      | 8:30                          | 2:30 | 8:30 | mean | 8:30                          | 2:30 | 8:30 | 8:30                        | 2:30 | 8:30 | mean | 8:30                           | 2:30 | 8:30 | mean |
|      |                               |      |      |      |                               |      |      |                             |      |      |      |                                |      |      |      |
| 1    | 26.8                          | 29.9 | 26.9 | 27.9 | 24.3                          | 25.0 | 25.2 | 20.5                        | 19.5 | 22.2 | 20.7 | 78.6                           | 61   | 85   | 75   |
| 2    | 27.3                          | 28.9 | 27.6 | 27.9 | 23.9                          | 25.0 | 25.0 | 19.2                        | 20.1 | 21.3 | 20.2 | 71                             | 68   | 78   | 72   |
| 3    | 29.2                          | 30.6 | 27.7 | 29.2 | 24.4                          | 25.4 | 25.1 | 18.9                        | 19.8 | 21.4 | 20.0 | 62                             | 60   | 78   | 67   |
| 4    | 28.3                          | 30.8 | 27.8 | 29.0 | 23.6                          | 25.0 | 24.9 | 18.0                        | 18.8 | 20.9 | 19.2 | 62                             | 56   | 75   | 64   |
| 5    | 28.6                          | 29.3 | 25.7 | 28.2 | 23.6                          | 24.4 | 23.6 | 17.8                        | 18.7 | 19.0 | 18.5 | 61                             | 62   | 73   | 65   |
| 6    | 27.7                          | 30.8 | 26.5 | 28.3 | 23.8                          | 25.9 | 24.0 | 18.7                        | 19.4 | 20.0 | 19.4 | 67                             | 59   | 77   | 68   |
| 7    | 27.0                          | 29.9 | 25.4 | 27.8 | 24.5                          | 25.5 | 23.3 | 24.5                        | 25.5 | 23.3 | 24.4 | 79                             | 65   | 73   | 72   |
| 8    | 27.6                          | 30.4 | 26.1 | 28.0 | 23.9                          | 25.2 | 23.8 | 18.9                        | 19.6 | 20.1 | 19.5 | 69                             | 60   | 80   | 70   |
| 9    | 27.2                          | 30.2 | 26.6 | 28.0 | 23.7                          | 24.4 | 22.3 | 18.9                        | 18.2 | 16.7 | 17.9 | 70                             | 57   | 63   | 63   |
| 10   | 25.8                          | 30.5 | 26.4 | 27.6 | 20.2                          | 22.9 | 21.1 | 13.8                        | 15.5 | 15.0 | 14.8 | 56                             | 47   | 60   | 54   |
| 11   | 27.4                          | 27.6 | 24.7 | 25.2 | 21.2                          | 20.4 | 18.7 | 14.5                        | 13.2 | 12.2 | 13.3 | 53                             | 48   | 53   | 51   |
| 12   | 25.9                          | 27.8 | 26.1 | 26.6 | 18.8                          | 18.9 | 18.7 | 11.8                        | 11.2 | 11.7 | 11.6 | 47                             | 40   | 46   | 44   |
| 13   | 26.5                          | 27.8 | 25.1 | 26.5 | 20.1                          | 20.7 | 19.3 | 13.3                        | 13.5 | 13.0 | 13.3 | 52                             | 49   | 54   | 52   |
| 14   | 26.1                          | 28.1 | 25.7 | 26.6 | 19.9                          | 20.7 | 21.4 | 13.2                        | 13.3 | 15.7 | 14.1 | 52                             | 47   | 62   | 54   |
| 15   | 25.2                          | 23.8 | 26.1 | 27.0 | 21.8                          | 22.7 | 21.5 | 16.1                        | 16.1 | 15.8 | 16.0 | 63                             | 55   | 62   | 60   |
| 16   | 27.4                          | 29.4 | 26.7 | 27.8 | 21.5                          | 23.7 | 22.8 | 14.9                        | 17.3 | 17.5 | 16.6 | 54                             | 57   | 67   | 59   |
| 17   | 27.4                          | 30.1 | 26.8 | 28.1 | 23.0                          | 23.0 | 22.9 | 17.4                        | 16.8 | 17.7 | 17.3 | 64                             | 53   | 67   | 61   |
| 18   | 26.7                          | 28.8 | 25.4 | 27.0 | 22.4                          | 23.9 | 22.7 | 16.9                        | 18.1 | 18.3 | 17.8 | 65                             | 60   | 76   | 67   |
| 19   | 25.2                          | 23.6 | 24.9 | 26.2 | 22.3                          | 23.2 | 22.2 | 17.8                        | 17.0 | 16.0 | 17.2 | 74                             | 57   | 75   | 69   |
| 20   | 25.4                          | 28.3 | 25.1 | 26.3 | 21.5                          | 22.7 | 22.6 | 16.2                        | 16.3 | 18.3 | 16.9 | 67                             | 56   | 77   | 67   |
| 21   | 26.7                          | 28.1 | 25.4 | 26.9 | 21.5                          | 22.3 | 22.0 | 15.3                        | 15.5 | 17.0 | 15.9 | 58                             | 53   | 70   | 60   |
| 22   | 25.6                          | 23.4 | 24.7 | 26.2 | 21.0                          | 21.8 | 20.1 | 15.2                        | 14.9 | 14.3 | 14.8 | 62                             | 52   | 62   | 59   |
| 23   | 24.9                          | 27.4 | 23.0 | 25.1 | 19.3                          | 19.6 | 18.5 | 13.1                        | 12.2 | 12.9 | 12.7 | 56                             | 44   | 61   | 54   |
| 24   | 22.5                          | 25.1 | 22.4 | 23.3 | 18.3                          | 18.8 | 17.8 | 12.9                        | 12.2 | 12.3 | 12.5 | 63                             | 51   | 61   | 58   |
| 25   | 24.4                          | 25.7 | 24.4 | 24.8 | 18.2                          | 19.2 | 18.4 | 11.7                        | 12.5 | 12.0 | 12.1 | 51                             | 51   | 52   | 51   |
| 26   | 25.1                          | 26.6 | 24.1 | 25.3 | 19.5                          | 21.0 | 19.0 | 13.2                        | 14.6 | 13.0 | 13.6 | 56                             | 55   | 58   | 56   |
| 27   | 24.3                          | 27.2 | 24.3 | 25.3 | 20.4                          | 21.2 | 20.4 | 15.0                        | 14.5 | 14.5 | 14.7 | 67                             | 53   | 67   | 62   |
| 28   | 23.2                          | 27.1 | 23.3 | 24.5 | 19.3                          | 21.7 | 20.6 | 13.9                        | 15.5 | 16.0 | 15.1 | 65                             | 57   | 75   | 66   |
| 29   | 24.8                          | 27.8 | 24.6 | 25.7 | 21.9                          | 23.4 | 21.5 | 17.4                        | 18.0 | 16.7 | 17.4 | 75                             | 65   | 73   | 71   |
| 30   | 26.6                          | 27.8 | 26.7 | 27.0 | 22.7                          | 22.5 | 23.8 | 17.5                        | 16.3 | 19.5 | 17.8 | 67                             | 59   | 74   | 67   |
| 31   | 26.3                          | 28.6 | 25.6 | 26.8 | 21.7                          | 22.7 | 21.8 | 16.2                        | 16.8 | 16.8 | 16.6 | 62.9                           | 55.2 | 67.8 | 62.0 |

Height of Barometer above sea level: 33.7 meters.

" " Thermometers above ground:

Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1.70 m.

Height of Rain Gauge: above ground 0.56 m.; above sea level m.

Gravity Correction -0.79mm.

Time of readings according to "Summer Time" of Standard Time of 30th E. Meridian.

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## METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0<br>Overcast—10 |        |        |      | Direction and<br>force of Wind<br>0—10 |      |      | Wind<br>per<br>day | Sea       | Notes          |
|------|--------------------------------|--------|--------|------|----------------------------------------|------|------|--------------------|-----------|----------------|
|      | 8:30                           | 2:30   | 8:30   | mean | 8:30                                   | 2:30 | 8:30 | Km.                |           |                |
| 1    | 2cu                            | Icu    | 0      | 1.0  | 0                                      | 3sw  | 0    | 299.4              | calm      |                |
| 2    | 0                              | 0      | 9sn    | 3.0  | Ine                                    | 3ne  | 3ne  | 334.3              | v. Slight |                |
| 3    | 6cu                            | 9cu n  | 8sn    | 7.7  | 0                                      | In   | 0    | 149.0              | calm      |                |
| 4    | 7cu n                          | 7cu n  | 3cu    | 5.7  | 0                                      | 0    | 0    | 200.8              | "         |                |
| 5    | 3cu s                          | 10cu n | 0      | 4.3  | 0                                      | 0    | 0    | 139.0              | "         |                |
| 6    | 0                              | Icu    | 0      | 0.3  | 0                                      | 2sw  | 0    | 122.9              | "         |                |
| 7    | 0                              | 3cu    | 0      | 1.0  | 0                                      | 2sw  | 0    | 140.2              | "         |                |
| 8    | 0                              | 0      | 2cu    | 0.7  | 0                                      | 0    | 0    | 155.6              | "         |                |
| 9    | 2cu                            | 0      | 6cu n  | 2.7  | 2sw                                    | 2sw  | Isw  | 381.9              | "         |                |
| 10   | 7cu n                          | 0      | 6cu    | 4.3  | 2sw                                    | 2sw  | Isw  | 216.4              | v. Slight | Few drops a.m. |
| 11   | 4cu n                          | 0      | 0      | 1.3  | Isw                                    | 3n   | 3n   | 322.7              | slight    | & p.m.         |
| 12   | 0                              | 0      | 0      | 0.0  | Ine                                    | 2ne  | 2ne  | 347.7              | v. Slight |                |
| 13   | 0                              | 0      | 2 ci   | 0.7  | 2ne                                    | Ine  | 0    | 262.9              | "         |                |
| 14   | 0                              | 0      | 0      | 0.0  | 0                                      | In   | Ine  | 203.7              | calm      |                |
| 15   | 0                              | 0      | 0      | 0.0  | 0                                      | 2ne  | 0    | 138.9              | "         |                |
| 16   | 0                              | 0      | 0      | 0.0  | 0                                      | In   | 0    | 273.3              | "         |                |
| 17   | 0                              | 0      | 0      | 0.0  | 0                                      | Ine  | 0    | 198.4              | "         |                |
| 18   | 0                              | 0      | 0      | 0.0  | 0                                      | Inw  | 0    | 114.9              | "         |                |
| 19   | 2cu                            | 0      | Icu    | 1.0  | 0                                      | Isw  | 0    | 118.5              | "         |                |
| 20   | 0                              | 3cu    | 0      | 1.0  | 0                                      | 2sw  | 0    | 128.7              | "         |                |
| 21   | 7cu ci                         | Icu    | 2n     | 3.3  | 0                                      | Iw   | 0    | 80.7               | "         |                |
| 22   | Icu                            | Icu    | 8n     | 3.3  | 2sw                                    | 3sw  | 3sw  | 276.7              | v. Slight |                |
| 23   | 9cu n                          | 3cu    | 10cu n | 7.3  | 3sw                                    | 2sw  | 2sw  | 433.7              | "         |                |
| 24   | 9cu n                          | 5cu    | 0      | 4.7  | Isw                                    | Isw  | Isw  | 338.0              | "         | Few drops a.m. |
| 25   | 0                              | 0      | 0      | 0.0  | Ine                                    | 3ne  | 3ne  | 252.0              | "         |                |
| 26   | 0                              | 0      | 0      | 0.0  | Ine                                    | Ine  | 0    | 489.1              | calm      |                |
| 27   | Icu                            | 4cu    | 5cu    | 3.3  | 0                                      | Inw  | 0    | 188.2              | "         |                |
| 28   | 0                              | 0      | 0      | 0.0  | 0                                      | Isw  | 0    | 191.4              | "         |                |
| 29   | 0                              | 0      | 0      | 0.0  | 0                                      | In   | 0    | 133.0              | "         |                |
| 30   | 0                              | 0      | 0      | 0.0  | 0                                      | Ine  | Ine  | 242.5              | v. Slight |                |
| 31   |                                |        |        | 1.89 |                                        |      |      | 229.4              |           |                |

### NUMBER OF DAILY WIND OBSERVATIONS

| Time   | N | NE | E | SE | S | SW | W | NW | Calm |
|--------|---|----|---|----|---|----|---|----|------|
| 8:30   | 0 | 5  | 0 | 0  | 0 | 6  | 0 | 0  | 19   |
| 2:30   | 5 | 8  | 0 | 0  | 0 | 11 | 1 | 2  | 3    |
| 8:30   | 1 | 5  | 0 | 0  | 0 | 5  | 0 | 0  | 19   |
| Totals | 6 | 18 | 0 | 0  | 0 | 22 | 1 | 2  | 41   |